

# SAFETY DATA SHEET

according to Regulation (EC) No. 1907/2006, as amended



## APESIN DAILY 2 X 5 L

WM 0713195

Order number: 0713195

Version 8.3

Revision Date 13.03.2025

Print Date 11.03.2026

### SECTION 1: Identification of the substance/mixture and of the company/undertaking

#### 1.1 Product identifier

Trade name : APESIN DAILY 2 X 5 L  
UFI : RGD6-H0GA-0003-ENNY

#### 1.2 Relevant identified uses of the substance or mixture and uses advised against

Use of the Substance/Mixture : Biocidal product  
Restricted to professional users.

#### 1.3 Details of the supplier of the safety data sheet

Company : Tana Chemie GmbH  
Rheinallee 96  
55120 Mainz  
Telephone : +49613196403  
Telefax : +4961319642526  
E-mail address : Produktsicherheit@werner-mertz.com  
Responsible/issuing person  
Contact person : Product development / product safety

#### 1.4 Emergency telephone number

EU: 112

### SECTION 2: Hazards identification

#### 2.1 Classification of the substance or mixture

##### Classification (REGULATION (EC) No 1272/2008)

|                                                |                                                          |
|------------------------------------------------|----------------------------------------------------------|
| Skin irritation, Category 2                    | H315: Causes skin irritation.                            |
| Serious eye damage, Category 1                 | H318: Causes serious eye damage.                         |
| Short-term (acute) aquatic hazard, Category 1  | H400: Very toxic to aquatic life.                        |
| Long-term (chronic) aquatic hazard, Category 3 | H412: Harmful to aquatic life with long lasting effects. |

#### 2.2 Label elements

##### Labelling (REGULATION (EC) No 1272/2008)

Hazard pictograms :



Signal word : Danger

Hazard statements : H315 Causes skin irritation.

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|                          |                                                              |                                                                                                                                                                                                                                                        |
|--------------------------|--------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Precautionary statements | H318                                                         | Causes serious eye damage.                                                                                                                                                                                                                             |
|                          | H410                                                         | Very toxic to aquatic life with long lasting effects.                                                                                                                                                                                                  |
|                          | P102                                                         | Keep out of reach of children.                                                                                                                                                                                                                         |
|                          | <b>Prevention:</b><br>P273<br>P280                           | Avoid release to the environment.<br>Wear protective gloves/ eye protection/ face protection.                                                                                                                                                          |
|                          | <b>Response:</b><br>P302 + P352<br>P305 + P351 + P338 + P310 | IF ON SKIN: Wash with plenty of water.<br>IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Immediately call a POISON CENTER or doctor/ physician.<br>Collect spillage. |
|                          | P391<br><b>Disposal:</b><br>P501                             | Dispose of container into the collection of recyclables only when it is completely empty.                                                                                                                                                              |

Hazardous components which must be listed on the label:

Isotridecanol, ethoxylated (10 EO)

Safety data sheet available on request.

### 2.3 Other hazards

This substance/mixture contains no components considered to be either persistent, bioaccumulative and toxic (PBT), or very persistent and very bioaccumulative (vPvB) at levels of 0.1% or higher.

The substance/mixture does not contain components considered to have endocrine disrupting properties according to REACH Article 57(f) or Commission Delegated regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605 at levels of 0.1% or higher.

## SECTION 3: Composition/information on ingredients

### 3.2 Mixtures

Chemical nature : Aqueous solution of biocides

#### Components

| Chemical name                      | CAS-No.<br>EC-No.<br>Index-No.<br>Registration number | Classification                                                                                                                                                    | Concentration<br>(% w/w) |
|------------------------------------|-------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------|
| Isotridecanol, ethoxylated (10 EO) | 69011-36-5<br>500-241-6                               | Eye Dam. 1; H318<br>Acute Tox. 4; H302                                                                                                                            | >= 3 - < 10              |
| didecyldimethylammonium chloride   | 7173-51-5<br>230-525-2<br>612-131-00-6                | Skin Corr. 1B; H314<br>Eye Dam. 1; H318<br>Aquatic Acute 1; H400<br>Aquatic Chronic 2;<br>H411<br>Acute Tox. 4; H302<br><br>M-Factor (Acute aquatic toxicity): 10 | >= 3 - < 5               |

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|                  |                                                           |                                                                                         |             |
|------------------|-----------------------------------------------------------|-----------------------------------------------------------------------------------------|-------------|
|                  |                                                           | Acute toxicity estimate                                                                 |             |
|                  |                                                           | Acute oral toxicity: 329 mg/kg                                                          |             |
| propan-2-ol      | 67-63-0<br>200-661-7<br>603-117-00-0<br>01-2119457558-25  | Flam. Liq. 2; H225<br>Eye Irrit. 2; H319<br>STOT SE 3; H336<br>(Central nervous system) | >= 1 - < 10 |
| sodium carbonate | 497-19-8<br>207-838-8<br>011-005-00-2<br>01-2119485498-19 | Eye Irrit. 2; H319                                                                      | >= 1 - < 10 |

### SECTION 4: First aid measures

#### 4.1 Description of first aid measures

- General advice : Move out of dangerous area.  
Consult a physician.  
Show this safety data sheet to the doctor in attendance.
- If inhaled : Move to fresh air.  
If symptoms persist, call a physician.
- In case of skin contact : Take off contaminated clothing and shoes immediately.  
Wash off with soap and plenty of water.  
If symptoms persist, call a physician.
- In case of eye contact : Small amounts splashed into eyes can cause irreversible tissue damage and blindness.  
Protect unharmed eye.  
Continue rinsing eyes during transport to hospital.
- If swallowed : Clean mouth with water and drink afterwards plenty of water.  
Do not give milk or alcoholic beverages.  
Never give anything by mouth to an unconscious person.  
Obtain medical attention.

#### 4.2 Most important symptoms and effects, both acute and delayed

- Symptoms : corrosive effects  
Irritation
- Risks : No information available.

#### 4.3 Indication of any immediate medical attention and special treatment needed

- Treatment : For specialist advice physicians should contact the Poisons Information Service.

### SECTION 5: Firefighting measures

#### 5.1 Extinguishing media

- Suitable extinguishing media : Use extinguishing measures that are appropriate to local circumstances and the surrounding environment.

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### 5.2 Special hazards arising from the substance or mixture

Specific hazards during firefighting : Do not allow run-off from fire fighting to enter drains or water courses.

Do not allow run-off from fire fighting to enter drains or water courses.

Hazardous combustion products : No hazardous combustion products are known

No hazardous combustion products are known

### 5.3 Advice for firefighters

Special protective equipment for firefighters : In the event of fire, wear self-contained breathing apparatus.

Further information : Collect contaminated fire extinguishing water separately. This must not be discharged into drains.  
Fire residues and contaminated fire extinguishing water must be disposed of in accordance with local regulations.

## SECTION 6: Accidental release measures

### 6.1 Personal precautions, protective equipment and emergency procedures

Personal precautions : Use personal protective equipment.  
Ensure adequate ventilation.

### 6.2 Environmental precautions

Environmental precautions : Try to prevent the material from entering drains or water courses.  
Prevent further leakage or spillage if safe to do so.  
If the product contaminates rivers and lakes or drains inform respective authorities.

### 6.3 Methods and material for containment and cleaning up

Methods for cleaning up : Neutralise with acid.  
Soak up with inert absorbent material (e.g. sand, silica gel, acid binder, universal binder, sawdust).  
Keep in suitable, closed containers for disposal.

### 6.4 Reference to other sections

For personal protection see section 8., Treat recovered material as described in the section "Disposal considerations"., Refer to section 15 for specific national regulation.

## SECTION 7: Handling and storage

### 7.1 Precautions for safe handling

Advice on safe handling : Avoid contact with skin and eyes.  
For personal protection see section 8.  
Smoking, eating and drinking should be prohibited in the application area.

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To avoid spills during handling keep bottle on a metal tray.  
Dispose of rinse water in accordance with local and national regulations.

Advice on protection against fire and explosion : Normal measures for preventive fire protection.

Hygiene measures : Handle in accordance with good industrial hygiene and safety practice. When using do not eat or drink. When using do not smoke. Wash hands before breaks and at the end of workday.

### 7.2 Conditions for safe storage, including any incompatibilities

Requirements for storage areas and containers : Store in original container. Keep container tightly closed in a dry and well-ventilated place. Containers which are opened must be carefully resealed and kept upright to prevent leakage. Store at room temperature in the original container.

Further information on storage stability : No decomposition if stored and applied as directed.

### 7.3 Specific end use(s)

Specific use(s) : Biocidal product

## SECTION 8: Exposure controls/personal protection

### 8.1 Control parameters

Contains no substances with occupational exposure limit values.

**Derived No Effect Level (DNEL) according to Regulation (EC) No. 1907/2006:**

| Substance name                                                                                                                               | End Use   | Exposure routes | Potential health effects   | Value      |
|----------------------------------------------------------------------------------------------------------------------------------------------|-----------|-----------------|----------------------------|------------|
| Isotridecanol, ethoxylated (10 EO), Tridecanol, branched, ethoxylated, Poly(oxy-1,2-ethanediyl), .alpha.-tridecyl-.omega.-hydroxy-, branched | Workers   | Inhalation      | Long-term systemic effects | 294 mg/m3  |
|                                                                                                                                              | Consumers | Skin contact    | Long-term systemic effects | 1250 mg/kg |
|                                                                                                                                              | Consumers | Ingestion       | Long-term systemic effects | 25 mg/kg   |
|                                                                                                                                              | Workers   | Skin contact    | Long-term systemic effects | 2080 mg/kg |
|                                                                                                                                              | Consumers | Inhalation      | Long-term systemic effects | 87 mg/m3   |
| Alanine, N,N-bis(carboxymethyl)-,                                                                                                            | Workers   | Inhalation      | Acute systemic effects     | 40 mg/m3   |

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| trisodium salt   |           |              |                            |           |
|                  | Workers   | Inhalation   | Acute local effects        | 40 mg/m3  |
|                  | Workers   | Inhalation   | Long-term systemic effects | 40 mg/m3  |
|                  | Workers   | Inhalation   | Long-term local effects    | 4 mg/m3   |
|                  | Consumers | Inhalation   | Acute local effects        | 20 mg/m3  |
|                  | Consumers | Inhalation   | Acute systemic effects     | 20 mg/m3  |
|                  | Consumers | Inhalation   | Long-term systemic effects | 20 mg/m3  |
|                  | Consumers | Inhalation   | Long-term local effects    | 2 mg/m3   |
|                  | Consumers | Ingestion    | Acute systemic effects     | 85 mg/kg  |
|                  | Consumers | Ingestion    | Long-term systemic effects | 17 mg/kg  |
| propan-2-ol      | Workers   | Skin contact | Long-term systemic effects | 888 mg/kg |
|                  | Workers   | Inhalation   | Long-term systemic effects | 500 mg/m3 |
|                  | Consumers | Skin contact | Long-term systemic effects | 319 mg/kg |
|                  | Consumers | Ingestion    | Long-term systemic effects | 26 mg/kg  |
|                  | Consumers | Inhalation   | Long-term systemic effects | 89 mg/m3  |
| sodium carbonate | Workers   | Inhalation   | Long-term local effects    | 10 mg/m3  |
|                  | Consumers | Inhalation   | Acute local effects        | 5 mg/m3   |

### Predicted No Effect Concentration (PNEC) according to Regulation (EC) No. 1907/2006:

| Substance name                                                                                                                                         | Environmental Compartment | Value        |
|--------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------|--------------|
| Isotridecanol, ethoxylated (10 EO),<br>Tridecanol, branched, ethoxylated,<br>Poly(oxy-1,2-ethanediyl), .alpha.-<br>tridecyl-.omega.-hydroxy-, branched | Fresh water sediment      | 0,604 mg/kg  |
|                                                                                                                                                        | Soil                      | 0,1 mg/kg    |
|                                                                                                                                                        | Marine sediment           | 0,0604 mg/kg |

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|                                                  |                      |             |
|--------------------------------------------------|----------------------|-------------|
|                                                  | Fresh water          | 0,074 mg/l  |
|                                                  | intermittent release | 0,015 mg/l  |
|                                                  | Marine water         | 0,0074 mg/l |
|                                                  | STP                  | 1,4 mg/l    |
| Alanine, N,N-bis(carboxymethyl)-, trisodium salt | Fresh water          | 2 mg/l      |
|                                                  | Marine water         | 0,2 mg/l    |
|                                                  | Fresh water sediment | 24 mg/kg    |
|                                                  | Soil                 | 2,5 mg/kg   |
|                                                  | STP                  | 100 mg/l    |
|                                                  | intermittent release | 1 mg/l      |
| propan-2-ol                                      | Fresh water          | 140,9 mg/l  |
|                                                  | Marine water         | 140,9 mg/l  |
|                                                  | Fresh water sediment | 552 mg/kg   |
|                                                  | Marine sediment      | 552 mg/kg   |
|                                                  | Soil                 | 28 mg/kg    |
|                                                  | intermittent release | 140,9 mg/l  |
|                                                  | STP                  | 2251 mg/l   |
|                                                  | Oral                 | 160 mg/kg   |

### 8.2 Exposure controls

#### Personal protective equipment

Eye/face protection : If splashes are likely to occur, wear:

Safety glasses with side-shields conforming to EN166

If splashes are likely to occur, wear:

Tightly fitting safety goggles

Hand protection

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Material : For prolonged or repeated contact use protective gloves.

It is suggested the usage of chemical resistant gloves made of butyl rubber or nitrile rubber category III according to EN 374.

As alternative, a different type of gloves might be used if, accordingly to the recommendations of the producer, guarantee the same level of protection.

Material : For prolonged or repeated contact use protective gloves.

It is suggested the usage of chemical resistant gloves made of butyl rubber or nitrile rubber category III according to EN 374.

As alternative, a different type of gloves might be used if, accordingly to the recommendations of the producer, guarantee the same level of protection.

Remarks : Take note of the information given by the producer concerning permeability and break through times, and of special workplace conditions (mechanical strain, duration of contact).

Skin and body protection : not required under normal use

Respiratory protection : not required under normal use

Not required; except in case of aerosol formation.

Recommended Filter type:

ABEK-P3-filter

### SECTION 9: Physical and chemical properties

#### 9.1 Information on basic physical and chemical properties

Physical state : liquid

Colour : colourless

Odour : characteristic

Melting point/freezing point : No data available



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|                                        |                                        |
|----------------------------------------|----------------------------------------|
| Boiling point/boiling range            | : No data available                    |
| Flammability (solid, gas)              | : No data available                    |
| Flammability (liquids)                 | : No data available                    |
| Lower explosion limit                  | : No data available                    |
| Upper explosion limit                  | : No data available                    |
| Flash point                            | : does not flash                       |
| Ignition temperature                   | : No data available                    |
| Decomposition temperature              | : No data available                    |
| pH                                     | : ca. 12,5, 100 %<br>at 20 °C          |
| Viscosity, dynamic                     | : 22 mPa.s at 20 °C                    |
| Viscosity, kinematic                   | : No data available                    |
| Water solubility                       | : soluble                              |
| Solubility in other solvents           | : No data available                    |
| Partition coefficient: n-octanol/water | : No data available                    |
| Vapour pressure                        | : No data available                    |
| Density                                | : ca. 1,018 g/cm <sup>3</sup> at 25 °C |
| Relative density                       | : No data available                    |
| Relative vapour density                | : No data available                    |
| Particle characteristics               | : No data available                    |

### 9.2 Other information

none

## SECTION 10: Stability and reactivity

### 10.1 Reactivity

Stable under recommended storage conditions.  
No dangerous reaction known under conditions of normal use.

### 10.2 Chemical stability

No decomposition if stored and applied as directed.

### 10.3 Possibility of hazardous reactions

Hazardous reactions : Stable under recommended storage conditions.  
No decomposition if used as directed.

### 10.4 Conditions to avoid

Conditions to avoid : No data available

### 10.5 Incompatible materials

Materials to avoid : No data available

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### 10.6 Hazardous decomposition products

No hazardous decomposition products are known.

## SECTION 11: Toxicological information

### 11.1 Information on hazard classes as defined in Regulation (EC) No 1272/2008

Our company is strongly against animal testing.

Our company does not place any orders for animal testing for the finished product or the ingredients.

However, as a result of EU legislation (REACH Regulation), the manufacturers of ingredients or EU importers are obliged to test ingredients with regard to their effects on human health and the environment before they are brought onto the market. Some of the tests made necessary by this took place decades ago.

#### Acute toxicity

##### Product:

Acute oral toxicity : Acute toxicity estimate: > 2.000 mg/kg  
Method: Calculation method

##### Components:

#### didecyldimethylammonium chloride

##### 7173-51-5:

Acute oral toxicity : LD50 (Rat): 238 mg/kg  
Method: OECD Test Guideline 401  
GLP: yes  
  
Acute toxicity estimate: 329 mg/kg  
Method: Converted acute toxicity point estimate

Acute dermal toxicity : LD50 (Rabbit): 3.342 mg/kg

#### propan-2-ol

##### 67-63-0:

Acute oral toxicity : LD50 Oral (Rat): 5.840 mg/kg  
Method: OECD Test Guideline 401

LD50 Oral (Rat): 4.570 mg/kg

LD50 Oral (Rat): 5.045 mg/kg

Acute inhalation toxicity : LC50 (Rat, female): 47,5 mg/l  
Exposure time: 8 h  
Method: OECD Test Guideline 403

LC50 (Rat): 72,6 mg/l  
Exposure time: 4 h

LC50 (Mouse): 27,2 mg/l  
Exposure time: 4 h

LC50 (Rat): 25 mg/l  
Exposure time: 6 h  
Method: OECD Test Guideline 403

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LC50 (Rat): 30 mg/l  
Exposure time: 4 h

LC50 (Rat): 10000 ppm  
Exposure time: 6 h

Acute dermal toxicity : LD50 (Rabbit): 12.800 mg/kg  
Method: OECD Test Guideline 402

LD50 Dermal (Rabbit): 12.870 mg/kg  
Method: OECD Test Guideline 402

LD50 Dermal (Rabbit): 13.900 mg/kg  
Method: OECD Test Guideline 402

LD50 Dermal (Rabbit): 13.400 mg/kg

### sodium carbonate

#### 497-19-8:

Acute oral toxicity : LD50 (Rat): 2.800 mg/kg

LD50 Oral (Rat): 4.090 mg/kg

Acute inhalation toxicity : LC50 (Rat): 2.300 mg/m<sup>3</sup>  
Exposure time: 2 h  
Method: OECD Test Guideline 403

LC50 (Mouse): 1,2 mg/l  
Exposure time: 2 h

Acute dermal toxicity : LD50 Dermal (Rabbit): > 2.000 mg/kg

LD50 Dermal (Rat): > 2.000 mg/kg

### Skin corrosion/irritation

#### Product:

Remarks : May cause skin irritation in susceptible persons.  
Information given is based on tests on the mixture itself.

Remarks : May cause skin irritation and/or dermatitis.

#### Components:

##### Isotridecanol, ethoxylated (10 EO)

#### 69011-36-5:

Species : Rabbit  
Method : OECD Test Guideline 404  
Result : No skin irritation

##### didecyldimethylammonium chloride

#### 7173-51-5:

Species : Rabbit  
Exposure time : 3 min  
Method : OECD Test Guideline 404

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Result : irritating  
GLP : yes

### propan-2-ol

#### 67-63-0:

Species : Rabbit  
Result : No skin irritation

### sodium carbonate

#### 497-19-8:

Species : Rabbit  
Method : OECD Test Guideline 404  
Result : No skin irritation

### Serious eye damage/eye irritation

#### Product:

Remarks : May cause irreversible eye damage.

#### Components:

### Isotridecanol, ethoxylated (10 EO)

#### 69011-36-5:

Species : Rabbit  
Result : Risk of serious damage to eyes.

### propan-2-ol

#### 67-63-0:

Species : Rabbit  
Result : irritating

### sodium carbonate

#### 497-19-8:

Species : Rabbit  
Result : Eye irritation

### Respiratory or skin sensitisation

#### Product:

Remarks : No data available

#### Components:

### didecyldimethylammonium chloride

#### 7173-51-5:

Species : Guinea pig  
Method : Buehler Test  
Result : Did not cause sensitisation on laboratory animals.

### propan-2-ol

#### 67-63-0:

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Test Type : Buehler Test  
Species : Guinea pig  
Result : Does not cause skin sensitisation.

### sodium carbonate

#### 497-19-8:

Result : Not a skin sensitizer.

### Germ cell mutagenicity

Germ cell mutagenicity : Not Rated

### Components:

#### didecyldimethylammonium chloride

##### 7173-51-5:

Genotoxicity in vitro : Test Type: Ames test  
Method: OECD Test Guideline 471  
Result: negative  
  
Test Type: Chromosome aberration test in vitro  
Result: negative  
  
Genotoxicity in vivo : Test Type: in vivo assay  
Species: Rat  
Application Route: Oral  
Method: see user defined free text  
Remarks: negative

### propan-2-ol

#### 67-63-0:

Genotoxicity in vitro : Test Type: Ames test  
Test system: Salmonella typhimurium  
Metabolic activation: with and without metabolic activation  
Result: negative  
  
Carcinogenicity : Not Rated  
  
Reproductive toxicity : Not Rated  
  
STOT - single exposure : The substance or mixture is not classified as specific target organ toxicant, single exposure.  
  
STOT - repeated exposure : The substance or mixture is not classified as specific target organ toxicant, repeated exposure.  
  
Aspiration toxicity : Not Rated

## 11.2 Information on other hazards

### Further information

#### Product:

Remarks : No data available

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### SECTION 12: Ecological information

#### 12.1 Toxicity

##### Components:

**Isotridecanol, ethoxylated (10 EO), Tridecanol, branched, ethoxylated, Poly(oxy-1,2-ethanediyl), .alpha.-tridecyl-.omega.-hydroxy-, branched**

##### **69011-36-5:**

|                                                     |   |                                                                                                       |
|-----------------------------------------------------|---|-------------------------------------------------------------------------------------------------------|
| Toxicity to fish                                    | : | LC50 (Leuciscus idus (Golden orfe)): 1 - 10 mg/l<br>Exposure time: 96 h<br>Method: DIN 38412          |
| Toxicity to daphnia and other aquatic invertebrates | : | EC50 (Daphnia (water flea)): 1 - 10 mg/l<br>Exposure time: 48 h                                       |
| Toxicity to algae/aquatic plants                    | : | EC50 (algae): 1 - 10 mg/l<br>Exposure time: 72 h<br><br>EC10 (algae): > 1 mg/l<br>Exposure time: 72 h |
| Toxicity to microorganisms                          | : | EC10 (activated sludge): > 10.000 mg/l<br>Exposure time: 17 h<br>Method: DIN 38412                    |

##### **didecyldimethylammonium chloride**

##### **7173-51-5:**

|                                                     |   |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |
|-----------------------------------------------------|---|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Toxicity to fish                                    | : | LC50 (Oncorhynchus mykiss (rainbow trout)): 1,0 mg/l<br>Exposure time: 96 h<br>Method: OECD Test Guideline 203<br><br>LC50 (Pimephales promelas (fathead minnow)): 0,19 mg/l<br>Exposure time: 96 h<br>Method: see user defined free text<br>GLP: yes<br><br>NOEC (Danio rerio (zebra fish)): 0,032 mg/l<br>Exposure time: 34 d<br>Method: see user defined free text<br><br>LC50 (Danio rerio (zebra fish)): 0,97 mg/l<br>Exposure time: 96 h<br>Method: OECD Test Guideline 203<br><br>LC50 (Danio rerio (zebra fish)): 0,49 mg/l<br>Exposure time: 96 h<br>Method: OECD Test Guideline 203 |
| Toxicity to daphnia and other aquatic invertebrates | : | EC50 (Daphnia magna (Water flea)): 0,062 mg/l<br>Exposure time: 48 h<br>Test Type: Immobilization<br>Method: see user defined free text<br><br>NOEC (Daphnia magna (Water flea)): 0,01 mg/l<br>Exposure time: 21 d                                                                                                                                                                                                                                                                                                                                                                            |

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Test Type: Reproduction Test  
Method: OECD Test Guideline 211

EC50 (Daphnia magna (Water flea)): 0,057 mg/l  
Exposure time: 48 h  
Method: OECD Test Guideline 202

EC50 (Daphnia (water flea)): 0,03 mg/l  
Exposure time: 48 h  
Method: OECD Test Guideline 202

EC50 (Daphnia (water flea)): 0,021 mg/l  
Exposure time: 48 h  
Method: OECD Test Guideline 211

NOEC (Daphnia magna (Water flea)): 0,014 mg/l  
Exposure time: 21 d

Toxicity to algae/aquatic plants : ErC50 (Pseudokirchneriella subcapitata (green algae)): 0,026 mg/l  
Exposure time: 96 h  
Test Type: Growth inhibition  
Analytical monitoring: yes  
Method: OECD Test Guideline 201  
GLP: yes

EC50 (Pseudokirchneriella subcapitata (green algae)): 0,053 mg/l  
Exposure time: 72 h  
Method: OECD Test Guideline 201

NOEC (Pseudokirchneriella subcapitata (green algae)): 0,013 mg/l  
Exposure time: 72 h  
Method: OECD Test Guideline 201

EC50 (Selenastrum capricornutum (green algae)): 0,06 mg/l  
Exposure time: 72 h  
Method: OECD Test Guideline 201

M-Factor (Acute aquatic toxicity) : 10

Toxicity to microorganisms : EC50 (activated sludge): 11 mg/l  
Exposure time: 3 h  
Test Type: Respiration inhibition  
Method: OECD Test Guideline 209

EC50 : 17,9 mg/l  
Exposure time: 3 h  
Method: OECD Test Guideline 209

EC20 : 8,9 mg/l  
Exposure time: 3 h  
Method: OECD Test Guideline 209

Toxicity to fish (Chronic toxicity) : NOEC: 0,032 mg/l  
Exposure time: 34 d  
Species: Danio rerio (zebra fish)  
Analytical monitoring: yes  
Method: OECD Test Guideline 210  
GLP: yes

Toxicity to soil dwelling organisms : NOEC: > 1.000 mg/kg  
Exposure time: 14 d

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|                                                     |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |
|-----------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|                                                     | Species: Eisenia fetida (earthworms)<br>Method: OECD Test Guideline 207                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |
| Plant toxicity                                      | : EC50: 283 - 1.670 mg/kg<br>Exposure time: 14 d<br>Method: OECD 208                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |
| <b>propan-2-ol</b><br><b>67-63-0:</b>               |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |
| Toxicity to fish                                    | : LC50 (Lepomis macrochirus (Bluegill sunfish)): 1.400 mg/l<br>Exposure time: 96 h<br><br>LC50 (Pimephales promelas (fathead minnow)): 9.640 mg/l<br>Exposure time: 96 h<br><br>LC50 (Leuciscus idus (Golden orfe)): > 100 mg/l<br>Exposure time: 48 h<br>Test Type: static test<br>GLP: no                                                                                                                                                                                                                                                                                |
| Toxicity to daphnia and other aquatic invertebrates | : EC50 (Daphnia magna (Water flea)): 13.299 mg/l<br>Exposure time: 48 h<br>Test Type: Immobilization<br>Method: OECD Test Guideline 202<br><br>EC50 (Daphnia magna (Water flea)): 9.714 mg/l<br>Exposure time: 24 h<br><br>EC50 (Daphnia magna (Water flea)): > 100 mg/l<br>Exposure time: 48 h<br>Test Type: static test<br>GLP: no<br><br>(Daphnia (water flea)): > 10.000 mg/l<br>Method: OECD Test Guideline 202<br><br>NOEC (Daphnia magna (Water flea)): 30 mg/l<br>Exposure time: 21 d<br><br>EC50 (Daphnia magna (Water flea)): 10.000 mg/l<br>Exposure time: 48 h |
| Toxicity to algae/aquatic plants                    | : IC50 (Desmodesmus subspicatus (green algae)): > 1.000 mg/l<br>Exposure time: 72 h<br>Test Type: Growth inhibition<br><br>EC50 (Pseudokirchneriella subcapitata (microalgae)): > 100 mg/l<br>Exposure time: 72 h<br>Test Type: static test<br>GLP: no<br><br>ErC50 (Pseudokirchneriella subcapitata (green algae)): > 1.000 mg/l<br>Exposure time: 72 h<br><br>EC50 (Scenedesmus subspicatus): > 100 mg/l<br>Exposure time: 72 h<br>Test Type: static test                                                                                                                |
| Toxicity to microorganisms                          | : EC50 (Aliivibrio fischeri): 17.700 mg/l<br>Exposure time: 5 min                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |



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EC10 (*Pseudomonas putida*): 5.175 mg/l  
Exposure time: 18 h  
Method: DIN 38412

### sodium carbonate

#### 497-19-8:

Toxicity to fish : LC50 (*Lepomis macrochirus* (Bluegill sunfish)): 300 mg/l  
Exposure time: 96 h

Toxicity to daphnia and other : EC50 (*Daphnia magna* (Water flea)): 200 - 227 mg/l  
aquatic invertebrates Exposure time: 48 h

EC50 (*Daphnia* (water flea)): 264 mg/l  
Exposure time: 48 h

EC50 (*Ceriodaphnia dubia* (water flea)): 200 - 227 mg/l  
Exposure time: 48 h  
Test Type: semi-static test

## 12.2 Persistence and degradability

### Components:

Isotridecanol, ethoxylated (10 EO), Tridecanol, branched, ethoxylated, Poly(oxy-1,2-ethanediyl), .alpha.-tridecyl-.omega.-hydroxy-, branched

#### 69011-36-5:

Biodegradability : Result: Readily biodegradable.

### didecyldimethylammonium chloride

#### 7173-51-5:

Biodegradability : Biodegradation: 72 %  
Exposure time: 28 d  
Method: OECD 301 B  
Remarks: Readily biodegradable, according to appropriate OECD test.

Result: rapidly biodegradable  
Biodegradation: > 70 %  
Method: OECD 301 D

Biodegradation: 93,3 %  
Exposure time: 28 d  
GLP: yes

Biodegradation: 91 %  
Exposure time: 24 - 70 d  
Method: OECD Test Guideline 303A

### propan-2-ol

#### 67-63-0:

Biodegradability : Result: rapidly biodegradable  
Biodegradation: 95 %  
Exposure time: 21 d  
Method: OECD 301 E

Inoculum: activated sludge  
Result: rapidly biodegradable

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Biodegradation: 53 %  
Exposure time: 5 d

Result: rapidly biodegradable  
Biodegradation: > 70 %  
Exposure time: 10 d  
GLP: no

Biodegradation: 99,9 %  
Method: see user defined free text

Chemical Oxygen Demand (COD) : 2,32 g/kg

ThOD : 2,40 g/g

### 12.3 Bioaccumulative potential

#### Components:

propan-2-ol

67-63-0:

Bioaccumulation : Bioconcentration factor (BCF): 3

Remarks: No bioaccumulation is to be expected (log Pow <= 4).

Partition coefficient: n-octanol/water : log Pow: 0,05

### 12.4 Mobility in soil

#### Components:

propan-2-ol

67-63-0:

Distribution among environmental compartments : Koc: 25  
Remarks: Highly mobile in soils

### 12.5 Results of PBT and vPvB assessment

#### Product:

Assessment : This substance/mixture contains no components considered to be either persistent, bioaccumulative and toxic (PBT), or very persistent and very bioaccumulative (vPvB) at levels of 0.1% or higher.

#### Components:

propan-2-ol

67-63-0:

Assessment : This substance is not considered to be very persistent and very bioaccumulating (vPvB).. This substance is not considered to be persistent, bioaccumulating and toxic (PBT).

### 12.6 Endocrine disrupting properties

No data available

### 12.7 Other adverse effects

#### Product:

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Additional ecological information : An environmental hazard cannot be excluded in the event of unprofessional handling or disposal.  
Very toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.  
Very toxic to aquatic organisms.

### SECTION 13: Disposal considerations

#### 13.1 Waste treatment methods

Product : The product should not be allowed to enter drains, water courses or the soil.  
Do not contaminate ponds, waterways or ditches with chemical or used container.  
In accordance with local and national regulations.

Contaminated packaging : Empty remaining contents.  
Dispose of as unused product.  
Do not re-use empty containers.

Waste Code : European Waste Catalogue  
07 06 99  
According to the European Waste Catalogue, Waste Codes are not product specific, but application specific. Waste codes should be assigned by the user, preferably in discussion with the waste disposal authorities.

### SECTION 14: Transport information

#### 14.1 UN number or ID number

ADR : 3267  
IMDG : 3267  
IATA : 3267

#### 14.2 UN proper shipping name

ADR : CORROSIVE LIQUID, BASIC, ORGANIC, N.O.S.  
(Didecyldimethylammonium chloride)

IMDG : CORROSIVE LIQUID, BASIC, ORGANIC, N.O.S.  
(Didecyldimethylammonium chloride)

IATA : Corrosive liquid, basic, organic, n.o.s.

#### 14.3 Transport hazard class(es)

ADR : 8  
IMDG : 8  
IATA : 8

#### 14.4 Packing group

ADR  
Classification Code : C7  
Packaging group : III  
Hazard Identification Number : 80  
Labels : 8  
Tunnel restriction code : (E)

IMDG  
Packaging group : III  
Labels : 8

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EmS Number : F-A, S-B  
IATA  
(Cargo) : Corrosive liquid, basic, organic, n.o.s.  
(Passenger) : Corrosive liquid, basic, organic, n.o.s.  
Packaging group : III  
Labels : 8

### 14.5 Environmental hazards

#### ADR

Environmentally hazardous : yes

#### IMDG

Marine pollutant : yes

#### IATA

Environmentally hazardous : no

### 14.6 Special precautions for user

The transport classification(s) provided herein are for informational purposes only, and solely based upon the properties of the unpackaged material as it is described within this Safety Data Sheet. Transportation classifications may vary by mode of transportation, package sizes, and variations in regional or country regulations.

For personal protection see section 8.

### 14.7 Maritime transport in bulk according to IMO instruments

Not applicable for product as supplied.

## SECTION 15: Regulatory information

### 15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture

Regulation (EC) No 649/2012 of the European Parliament and the Council concerning the export and import of dangerous chemicals : 7173-51-5

REACH - Restrictions on the manufacture, placing on the market and use of certain dangerous substances, mixtures and articles (Annex XVII) : See Annex XVII to Regulation (EC) no 1907/2006 for Conditions of restriction

|    |                               | Quantity 1 | Quantity 2 |
|----|-------------------------------|------------|------------|
| 9a | Dangerous for the environment | 100 000067 | 200 000067 |

Seveso III: Directive 2012/18/EU of the European Parliament and of the Council on the control of major-accident hazards involving dangerous substances.

|    |                       |            |            |
|----|-----------------------|------------|------------|
| E1 | ENVIRONMENTAL HAZARDS | 100 000067 | 200 000067 |
|----|-----------------------|------------|------------|

TA Luft List (Germany) : Total dust: Not applicable  
: Inorganic substances in powdered form: Not applicable  
: Inorganic substances in vapour or gaseous form: Not applicable  
: Organic Substances: Not applicable  
: Carcinogenic substances: Not applicable  
: Mutagenic: Not applicable  
: Toxic to reproduction: Not applicable

Volatile organic compounds (VOC) content : Directive 2010/75/EU of 24 November 2010 on industrial emissions (integrated pollution prevention and control)  
Update: Percent volatile: 1,8 %

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according to Detergents : 5 - <15% non-ionic surfactants, DIDECYLDIMONIUM CHLORIDE  
Regulation EC 648/2004

### 15.2 Chemical safety assessment

There is no data available for this product.

## SECTION 16: Other information

### Full text of H-Statements

|      |                                                    |
|------|----------------------------------------------------|
| H225 | : Highly flammable liquid and vapour.              |
| H302 | : Harmful if swallowed.                            |
| H314 | : Causes severe skin burns and eye damage.         |
| H318 | : Causes serious eye damage.                       |
| H319 | : Causes serious eye irritation.                   |
| H336 | : May cause drowsiness or dizziness.               |
| H400 | : Very toxic to aquatic life.                      |
| H411 | : Toxic to aquatic life with long lasting effects. |

### Full text of other abbreviations

|                 |                                                    |
|-----------------|----------------------------------------------------|
| Acute Tox.      | : Acute toxicity                                   |
| Aquatic Acute   | : Short-term (acute) aquatic hazard                |
| Aquatic Chronic | : Long-term (chronic) aquatic hazard               |
| Eye Dam.        | : Serious eye damage                               |
| Eye Irrit.      | : Eye irritation                                   |
| Flam. Liq.      | : Flammable liquids                                |
| Skin Corr.      | : Skin corrosion                                   |
| STOT SE         | : Specific target organ toxicity - single exposure |

ADN - European Agreement concerning the International Carriage of Dangerous Goods by Inland Waterways; ADR - Agreement concerning the International Carriage of Dangerous Goods by Road; AIIIC - Australian Inventory of Industrial Chemicals; ASTM - American Society for the Testing of Materials; bw - Body weight; CLP - Classification Labelling Packaging Regulation; Regulation (EC) No 1272/2008; CMR - Carcinogen, Mutagen or Reproductive Toxicant; DIN - Standard of the German Institute for Standardisation; DSL - Domestic Substances List (Canada); ECHA - European Chemicals Agency; EC-Number - European Community number; ECx - Concentration associated with x% response; ELx - Loading rate associated with x% response; EmS - Emergency Schedule; ENCS - Existing and New Chemical Substances (Japan); ErCx - Concentration associated with x% growth rate response; GHS - Globally Harmonized System; GLP - Good Laboratory Practice; IARC - International Agency for Research on Cancer; IATA - International Air Transport Association; IBC - International Code for the Construction and Equipment of Ships carrying Dangerous Chemicals in Bulk; IC50 - Half maximal inhibitory concentration; ICAO - International Civil Aviation Organization; IECSC - Inventory of Existing Chemical Substances in China; IMDG - International Maritime Dangerous Goods; IMO - International Maritime Organization; ISHL - Industrial Safety and Health Law (Japan); ISO - International Organisation for Standardization; KECI - Korea Existing Chemicals Inventory; LC50 - Lethal Concentration to 50 % of a test population; LD50 - Lethal Dose to 50% of a test population (Median Lethal Dose); MARPOL - International Convention for the Prevention of Pollution from Ships; n.o.s. - Not Otherwise Specified; NO(A)EC - No Observed (Adverse) Effect Concentration; NO(A)EL - No Observed (Adverse) Effect Level; NOELR - No Observable Effect Loading Rate; NZIoC - New Zealand Inventory of Chemicals; OECD - Organization for Economic Co-operation and Development; OPPTS - Office of Chemical Safety and Pollution Prevention; PBT - Persistent, Bioaccumulative and Toxic substance; PICCS - Philippines Inventory of Chemicals and Chemical Substances; (Q)SAR - (Quantitative) Structure Activity Relationship; REACH - Regulation (EC) No 1907/2006 of the European Parliament and of the Council concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals; RID - Regulations concerning the International Carriage of Dangerous Goods by Rail; SADT - Self-Accelerating Decomposition Temperature; SDS - Safety Data Sheet; SVHC - Substance of Very High Concern; TCSI - Taiwan Chemical Substance Inventory; TECI - Thailand Existing Chemicals Inventory;

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TRGS - Technical Rule for Hazardous Substances; TSCA - Toxic Substances Control Act (United States); UN - United Nations; vPvB - Very Persistent and Very Bioaccumulative

### Further information

#### Classification of the mixture:

|                   |      |
|-------------------|------|
| Skin Irrit. 2     | H315 |
| Eye Dam. 1        | H318 |
| Aquatic Acute 1   | H400 |
| Aquatic Chronic 3 | H412 |

#### Classification procedure:

|                                     |
|-------------------------------------|
| Based on product data or assessment |
| Based on product data or assessment |
| Calculation method                  |
| Calculation method                  |

The information provided in this Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process, unless specified in the text.

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